

Data Validation Checklist
Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica – Tampa, FL
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Jane Lindsey
 Concurrence¹: Carol Lovett/ Sarah Choyke

Project No: 15268508.20000
 Job ID.: 680-87496-2
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date(s) Collected: 02/13/2013
 Date: 03/06/2013
 Date: 03/29/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.	✓			Sample CV0971NN-CS (680-87496-24) contained 52.1% water, but was reported on a dry-weight basis. Due to high moisture content, results should be report on a wet-weight basis.	J
5. Were holding times met (\leq 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; \leq 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 021213-RB-Shovel (680-87747-31).	

¹ Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 021213-RB-Shovel (680-87747-31), was collected during the week of 02/11/12. The rinsate blank was analyzed for PAHs under Test America Job ID 680-87747-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			CV0971PP-CSD (680-87496-27) is a field duplicate of CV0971PP-CS (680-87496-26).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> • Initial Calibration: 01/07/2013, instrument BSMC5973 • ICV: 01/07/2013 @ 17:31 • CCV: 02/21/2013 @ 11:47 • Initial Calibration: 01/07/2013, instrument BSMD5973 • ICV: 01/07/2013 @ 13:20 • CCV: 02/21/2013 @ 11:57 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> • ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ◦ If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> ○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%$D ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects	✓				
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> • Prep Batch 134660: 680-87496-1 (CV0971T-CS), MS/MSD. Lab sample 680-87496-1 is a project-specific sample (CV0971T-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-87496-1. • Prep Batch 134668: 680-87496-28 (CV0971QQ-CS), MS/MSD 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration >4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R>10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results 		✓		<p>CV0971QQ-CS (680-87496-28):</p> <ul style="list-style-type: none"> • Benzo(a)anthracene MS @ 149%R (40-130). Qualification of data is not required, because the MSD %R (80) is within acceptance criteria. • Benzo(a)pyrene MS @ 145%R (49-130). Qualification of data is not required, because the MS %R (79) is within acceptance criteria. • Benzo(b)fluoranthene MS @ 163%R (37-130). Qualification of data is not required, because the MS %R (77) is within acceptance criteria. • Benzo(k)fluoranthene MS @ 148%R (32-130). Qualification of data is not required, because the MS %R (81) is within acceptance criteria. • Fluoranthene MS @ 231%R (40-130). 	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				<p>Qualification of data is not required, because the MS %R (62) is within acceptance criteria.</p> <ul style="list-style-type: none"> • Phenanthrene MS @ 170%R (42-130). <p>Qualification of data is not required, because the MS %R (77) is within acceptance criteria.</p> <ul style="list-style-type: none"> • Pyrene MS @ 205%R (44-130). Qualification of data is not required, because the MS %R (74) is within acceptance criteria. 	
<p>26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result 	✓			<p>CV0971QQ-CS (680-87496-28):</p> <ul style="list-style-type: none"> • Benzo(a)anthracene @ 45%RPD (≤ 40), J-flag • Benzo(a)pyrene @ 43%RPD (≤ 40), J-flag • Benzo(b)fluoranthene @ 46%RPD (≤ 40), J-flag • Benzo(k)fluoranthene @ 50%RPD (≤ 40), J-flag • Chrysene @ 43%RPD (≤ 40), J-flag • Fluoranthene @ 76%RPD (≤ 40), J-flag • Phenanthrene @ 60%RPD (≤ 40), J-flag • Pyrene @ 64%RPD (≤ 40), J-flag 	J
<p>27. Were surrogate recoveries within lab/project specifications?</p> <ul style="list-style-type: none"> • If %R <10, then J-flag positive and R-flag non-detect associated sample results • If %R >UCL, then J-flag positive results • %R $\geq 10\%$, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 1 %R >UCL and 1 %R $\geq 10\%$, but <LCL, then J-flag positive results and UJ-flag non-detect results 	✓				
<p>28. Were internal standard (IS) results within lab/project specifications?</p> <ul style="list-style-type: none"> • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
associated data. <ul style="list-style-type: none"> The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 					
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	
Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A
SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-87496-21	CV0971KK-CS	Solid	02/13/13 10:18	02/15/13 09:42
680-87496-22	CV0971LL-CS	Solid	02/13/13 10:22	02/15/13 09:42
680-87496-23	CV0971MM-CS	Solid	02/13/13 11:04	02/15/13 09:42
680-87496-24	CV0971NN-CS	Solid	02/13/13 11:10	02/15/13 09:42
680-87496-25	CV0971OO-CS	Solid	02/13/13 11:13	02/15/13 09:42
680-87496-26	CV0971PP-CS	Solid	02/13/13 11:24	02/15/13 09:42
680-87496-27	CV0971PP-CSD	Solid	02/13/13 11:26	02/15/13 09:42
680-87496-28	CV0971QQ-CS	Solid	02/13/13 11:28	02/15/13 09:42
680-87496-29	CV0971RR-CS	Solid	02/13/13 11:32	02/15/13 09:42
680-87496-30	CV0971SS-CS	Solid	02/13/13 11:35	02/15/13 09:42
680-87496-31	CV0971TT-CS	Solid	02/13/13 11:38	02/15/13 09:42
680-87496-32	CV0971AK-GS	Solid	02/13/13 09:21	02/15/13 09:42
680-87496-33	CV0971AL-GS	Solid	02/13/13 10:01	02/15/13 09:42
680-87496-34	CV0971AM-GS	Solid	02/13/13 10:06	02/15/13 09:42
680-87496-35	CV0971AN-GS	Solid	02/13/13 10:33	02/15/13 09:42
680-87496-36	CV0971AO-GS	Solid	02/13/13 10:45	02/15/13 09:42
680-87496-37	CV0971AP-GS	Solid	02/13/13 11:20	02/15/13 09:42
680-87496-38	CV0971AQ-GS	Solid	02/13/13 11:22	02/15/13 09:42
680-87496-39	CV0971AR-GS	Solid	02/13/13 14:20	02/15/13 09:42
680-87496-40	CV0971UU-CS	Solid	02/13/13 13:41	02/15/13 09:42

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ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0971PP-CS (680-87496-26)	RL	CV0971PP-CSD (680-87496-27)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	44	59	35	59	µg/kg	295	NA	9	118	None, absolute difference \leq 2x Avg RL
Anthracene	87	12	57	12	µg/kg	60	NA	30	24	J/UJ-flag, absolute difference $>$ 2x Avg RL
Benzo(a)anthracene	420	12	320	12	µg/kg	60	27	NA	NA	None, RPD \leq 50%
Benzo(a)pyrene	480	15	330	15	µg/kg	75	37	NA	NA	None, RPD \leq 50%
Benzo(b)fluoranthene	820	18	590	18	µg/kg	90	33	NA	NA	None, RPD \leq 50%
Benzo(g,h,i)perylene	360	30	260	30	µg/kg	150	32	NA	NA	None, RPD \leq 50%
Benzo(k)fluoranthene	240	12	150	12	µg/kg	60	46	NA	NA	None, RPD \leq 50%
Chrysene	520	13	380	13	µg/kg	65	31	NA	NA	None, RPD \leq 50%
Dibenzo(a,h)anthracene	100	30	79	30	µg/kg	150	NA	21	60	None, absolute difference \leq 2x Avg RL
Fluoranthene	930	30	680	30	µg/kg	150	31	NA	NA	None, RPD \leq 50%
Fluorene	21	30	24	30	µg/kg	150	NA	3	60	None, absolute difference \leq 2x Avg RL
Indeno(1,2,3-cd)pyrene	300	30	220	30	µg/kg	150	31	NA	NA	None, RPD \leq 50%
1-Methylnaphthalene	91	59	76	59	µg/kg	295	NA	15	118	None, absolute difference \leq 2x Avg RL
2-Methylnaphthalene	110	59	110	59	µg/kg	295	NA	0	118	None, absolute difference \leq 2x Avg RL
Naphthalene	110	59	110	59	µg/kg	295	NA	0	118	None, absolute difference \leq 2x Avg RL
Phenanthrene	520	12	310	12	µg/kg	60	51	NA	NA	J/UJ-flag, RPD > 50 %
Pyrene	840	30	600	30	µg/kg	150	33	NA	NA	None, RPD \leq 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results $>$ 5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD $>$ 20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
SDG: 68087496-2

Job ID: 680-87496-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87496-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

SEMOVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0971KK-CS (680-87496-21), CV0971LL-CS (680-87496-22), CV0971MM-CS (680-87496-23), CV0971NN-CS (680-87496-24), CV0971OO-CS (680-87496-25), CV0971PP-CS (680-87496-26), CV0971PP-CSD (680-87496-27), CV0971QQ-CS (680-87496-28), CV0971RR-CS (680-87496-29), CV0971SS-CS (680-87496-30), CV0971TT-CS (680-87496-31), CV0971AK-GS (680-87496-32), CV0971AL-GS (680-87496-33), CV0971AM-GS (680-87496-34), CV0971AN-GS (680-87496-35), CV0971AO-GS (680-87496-36), CV0971AP-GS (680-87496-37), CV0971AQ-GS (680-87496-38), CV0971AR-GS (680-87496-39) and CV0971UU-CS (680-87496-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/20/2013 and analyzed on 02/21/2013.

Samples CV0971LL-CS (680-87496-22)[4X] and CV0971NN-CS (680-87496-24)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0971QQ-CS (680-87496-28) in batch 660-134719. Several analytes also exceeded the rpd limit for the MS/MSD of sample CV0971QQ-CS (680-87496-28) in batch 660-134719.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Client Sample ID: CV0971KK-CS

Lab Sample ID: 680-87496-21

Date Collected: 02/13/13 10:18
 Date Received: 02/15/13 09:42

Matrix: Solid
 Percent Solids: 58.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	41	J	170	33	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Acenaphthylene	60	J	67	8.3	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Anthracene	130		14	7.0	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Benzo[a]anthracene	340		13	6.5	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Benzo[a]pyrene	330		17	8.7	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Benzo[b]fluoranthene	590		20	10	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Benzo[g,h,i]perylene	200		33	7.3	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Benzo[k]fluoranthene	170		13	6.0	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Chrysene	430		15	7.5	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Dibenz(a,h)anthracene	62		33	6.8	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Fluoranthene	820		33	6.7	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Fluorene	37		33	6.8	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Indeno[1,2,3-cd]pyrene	200		33	12	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
1-Methylnaphthalene	130		67	7.3	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
2-Methylnaphthalene	140		67	12	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Naphthalene	140		67	7.3	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Phenanthrene	500		13	6.5	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Pyrene	640		33	6.2	ug/Kg	o	02/20/13 11:26	02/21/13 17:36	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		68			30 - 130		02/20/13 11:26	02/21/13 17:36	1

Client Sample ID: CV0971LL-CS

Lab Sample ID: 680-87496-22

Date Collected: 02/13/13 10:22
 Date Received: 02/15/13 09:42

Matrix: Solid
 Percent Solids: 64.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	610	U	610	120	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Acenaphthylene	200	J	250	31	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Anthracene	190		52	26	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Benzo[a]anthracene	730		49	24	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Benzo[a]pyrene	800		64	32	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Benzo[b]fluoranthene	1300		75	37	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Benzo[g,h,i]perylene	510		120	27	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Benzo[k]fluoranthene	480		49	22	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Chrysene	910		55	28	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Dibenz(a,h)anthracene	160		120	25	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Fluoranthene	1400		120	25	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Fluorene	51	J	120	25	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Indeno[1,2,3-cd]pyrene	480		120	44	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
1-Methylnaphthalene	200	J	250	27	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
2-Methylnaphthalene	230	J	250	44	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Naphthalene	210	J	250	27	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Phenanthrene	640		49	24	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Pyrene	1200		120	23	ug/Kg	o	02/20/13 11:26	02/21/13 17:58	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		96			30 - 130		02/20/13 11:26	02/21/13 17:58	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Client Sample ID: CV0971MM-CS

Lab Sample ID: 680-87496-23

Date Collected: 02/13/13 11:04

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 64.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Acenaphthylene	42	J	61	7.6	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Anthracene	50		13	6.4	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Benzo[a]anthracene	170		12	6.0	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Benzo[a]pyrene	160		16	8.0	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Benzo[b]fluoranthene	270		19	9.3	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Benzo[g,h,i]perylene	91		31	6.7	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Benzo[k]fluoranthene	84		12	5.5	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Chrysene	210		14	6.9	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Dibenz(a,h)anthracene	31		31	6.3	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Fluoranthene	330		31	6.1	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Fluorene	14	J	31	6.3	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Indeno[1,2,3-cd]pyrene	90		31	11	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
1-Methylnaphthalene	120		61	6.7	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
2-Methylnaphthalene	140		61	11	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Naphthalene	140		61	6.7	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Phenanthrene	220		12	6.0	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Pyrene	280		31	5.7	ug/Kg	∅	02/20/13 11:26	02/21/13 18:21	1
Surrogate		%Recovery			Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		58			30 - 130		02/20/13 11:26	02/21/13 18:21	1

Client Sample ID: CV0971NN-CS

Lab Sample ID: 680-87496-24

Date Collected: 02/13/13 11:10

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 47.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	J	840	170	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Acenaphthylene	200	J	330	42	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Anthracene	730	J	70	35	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Benzo[a]anthracene	2200	J	67	33	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Benzo[a]pyrene	2000	J	87	43	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Benzo[b]fluoranthene	3100	J	100	51	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Benzo[g,h,i]perylene	970	J	170	37	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Benzo[k]fluoranthene	1300	J	67	30	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Chrysene	2400	J	75	38	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Dibenz(a,h)anthracene	320	J	170	34	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Fluoranthene	4900	J	170	33	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Fluorene	260	J	170	34	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Indeno[1,2,3-cd]pyrene	1000	J	170	59	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
1-Methylnaphthalene	570	J	330	37	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
2-Methylnaphthalene	680	J	330	59	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Naphthalene	610	J	330	37	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Phenanthrene	3200	J	67	33	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Pyrene	3800	J	170	31	ug/Kg	∅	02/20/13 11:26	02/21/13 18:43	4
Surrogate		%Recovery			Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		114			30 - 130		02/20/13 11:26	02/21/13 18:43	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Client Sample ID: CV0971OO-CS

Date Collected: 02/13/13 11:13

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-25

Matrix: Solid

Percent Solids: 64.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Acenaphthylene	47	J	60	7.5	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Anthracene	76		13	6.3	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Benzo[a]anthracene	280		12	5.9	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Benzo[a]pyrene	310		16	7.9	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Benzo[b]fluoranthene	520		18	9.2	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Benzo[g,h,i]perylene	180		30	6.6	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Benzo[k]fluoranthene	180		12	5.4	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Chrysene	360		14	6.8	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Dibenz(a,h)anthracene	58		30	6.2	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Fluoranthene	560		30	6.0	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Fluorene	19	J	30	6.2	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Indeno[1,2,3-cd]pyrene	170		30	11	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
1-Methylnaphthalene	110		60	6.6	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
2-Methylnaphthalene	120		60	11	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Naphthalene	130		60	6.6	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Phenanthrene	310		12	5.9	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Pyrene	450		30	5.6	ug/Kg	⊗	02/20/13 11:26	02/21/13 19:06	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		69		30 - 130			02/20/13 11:26	02/21/13 19:06	1

Client Sample ID: CV0971PP-CS

Date Collected: 02/13/13 11:24

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-26

Matrix: Solid

Percent Solids: 66.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Acenaphthylene	44	J	59	7.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Anthracene	87	J	12	6.2	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Benzo[a]anthracene	420		12	5.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Benzo[a]pyrene	480		15	7.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Benzo[b]fluoranthene	820		18	9.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Benzo[g,h,i]perylene	360		30	6.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Benzo[k]fluoranthene	240		12	5.3	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Chrysene	520		13	6.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Dibenz(a,h)anthracene	100		30	6.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Fluoranthene	930		30	5.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Fluorene	21	J	30	6.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Indeno[1,2,3-cd]pyrene	300		30	11	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
1-Methylnaphthalene	91		59	6.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
2-Methylnaphthalene	110		59	11	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Naphthalene	110		59	6.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Phenanthrene	520	J	12	5.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Pyrene	840		30	5.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:14	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		75		30 - 130			02/20/13 13:23	02/21/13 14:14	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Client Sample ID: CV0971PP-CSD

Date Collected: 02/13/13 11:26

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-27

Matrix: Solid

Percent Solids: 67.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Acenaphthylene	35	J	59	7.4	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Anthracene	57	J	12	6.2	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Benz[a]anthracene	320		12	5.8	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Benz[a]pyrene	330		15	7.7	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Benz[b]fluoranthene	590		18	9.0	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Benz[g,h,i]perylene	260		30	6.5	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Benz[k]fluoranthene	150		12	5.3	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Chrysene	380		13	6.6	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Dibenz(a,h)anthracene	79		30	6.1	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Fluoranthene	680		30	5.9	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Fluorene	24	J	30	6.1	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Indeno[1,2,3-cd]pyrene	220		30	10	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
1-Methylnaphthalene	76		59	6.5	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
2-Methylnaphthalene	110		59	10	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Naphthalene	110		59	6.5	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Phenanthrene	310	J	12	5.8	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Pyrene	600		30	5.5	ug/Kg	∅	02/20/13 13:23	02/21/13 14:32	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	74			30 - 130			02/20/13 13:23	02/21/13 14:32	1

Client Sample ID: CV0971QQ-CS

Date Collected: 02/13/13 11:28

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-28

Matrix: Solid

Percent Solids: 61.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Acenaphthylene	53	J	65	8.2	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Anthracene	72		14	6.9	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Benz[a]anthracene	420	J	13	6.4	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Benz[a]pyrene	450	J	17	8.5	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Benz[b]fluoranthene	720	J	20	10	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Benz[g,h,i]perylene	350		33	7.2	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Benz[k]fluoranthene	210	J	13	5.9	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Chrysene	490	J	15	7.4	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Dibenz(a,h)anthracene	90		33	6.7	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Fluoranthene	820	J	33	6.5	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Fluorene	24	J	33	6.7	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Indeno[1,2,3-cd]pyrene	270		33	12	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
1-Methylnaphthalene	96		65	7.2	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
2-Methylnaphthalene	86		65	12	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Naphthalene	110		65	7.2	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Phenanthrene	340	J	13	6.4	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Pyrene	700	J	33	6.1	ug/Kg	∅	02/20/13 13:23	02/21/13 13:19	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	110			30 - 130			02/20/13 13:23	02/21/13 13:19	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Client Sample ID: CV0971RR-CS

Date Collected: 02/13/13 11:32

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-29

Matrix: Solid

Percent Solids: 65.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Acenaphthylene	50	J	61	7.6	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Anthracene	68		13	6.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Benzo[a]anthracene	450		12	5.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Benzo[a]pyrene	510		16	7.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Benzo[b]fluoranthene	800		18	9.2	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Benzo[g,h,i]perylene	340		30	6.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Benzo[k]fluoranthene	260		12	5.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Chrysene	540		14	6.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Dibenz(a,h)anthracene	92		30	6.2	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Fluoranthene	890		30	6.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Fluorene	20	J	30	6.2	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Indeno[1,2,3-cd]pyrene	290		30	11	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
1-Methylnaphthalene	62		61	6.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
2-Methylnaphthalene	80		61	11	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Naphthalene	87		61	6.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Phenanthrene	350		12	5.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Pyrene	810		30	5.6	ug/Kg	⊗	02/20/13 13:23	02/21/13 14:51	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		93		30 - 130			02/20/13 13:23	02/21/13 14:51	1

Client Sample ID: CV0971SS-CS

Date Collected: 02/13/13 11:35

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-30

Matrix: Solid

Percent Solids: 68.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	36	J	140	29	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Acenaphthylene	130		57	7.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Anthracene	110		12	6.0	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Benzo[a]anthracene	620		11	5.6	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Benzo[a]pyrene	730		15	7.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Benzo[b]fluoranthene	1200		17	8.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Benzo[g,h,i]perylene	540		29	6.3	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Benzo[k]fluoranthene	380		11	5.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Chrysene	780		13	6.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Dibenz(a,h)anthracene	140		29	5.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Fluoranthene	1200		29	5.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Fluorene	41		29	5.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Indeno[1,2,3-cd]pyrene	490		29	10	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
1-Methylnaphthalene	220		57	6.3	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
2-Methylnaphthalene	280		57	10	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Naphthalene	230		57	6.3	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Phenanthrene	540		11	5.6	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Pyrene	1100		29	5.3	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:09	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		88		30 - 130			02/20/13 13:23	02/21/13 15:09	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Client Sample ID: CV0971TT-CS

Lab Sample ID: 680-87496-31

Date Collected: 02/13/13 11:38

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 90.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	95	J	110	22	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Acenaphthylene	180		44	5.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Anthracene	280		9.3	4.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Benzo[a]anthracene	1300		8.9	4.3	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Benzo[a]pyrene	1300		12	5.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Benzo[b]fluoranthene	2000		14	6.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Benzo[g,h,i]perylene	950		22	4.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Benzo[k]fluoranthene	830		8.9	4.0	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Chrysene	1300		10	5.0	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Dibenz(a,h)anthracene	260		22	4.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Fluoranthene	2400		22	4.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Fluorene	94		22	4.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Indeno[1,2,3-cd]pyrene	780		22	7.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
1-Methylnaphthalene	180		44	4.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
2-Methylnaphthalene	220		44	7.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Naphthalene	190		44	4.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Phenanthrene	1100		8.9	4.3	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Pyrene	2200		22	4.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:28	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		103		30 - 130			02/20/13 13:23	02/21/13 15:28	1

Client Sample ID: CV0971AK-GS

Lab Sample ID: 680-87496-32

Date Collected: 02/13/13 09:21

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 71.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Acenaphthylene	12	J	55	6.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Anthracene	13		12	5.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Benzo[a]anthracene	71		11	5.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Benzo[a]pyrene	68		14	7.2	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Benzo[b]fluoranthene	120		17	8.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Benzo[g,h,i]perylene	55		28	6.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Benzo[k]fluoranthene	35		11	5.0	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Chrysene	82		12	6.2	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Dibenz(a,h)anthracene	16	J	28	5.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Fluoranthene	100		28	5.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Fluorene	8.3	J	28	5.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Indeno[1,2,3-cd]pyrene	40		28	9.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
1-Methylnaphthalene	26	J	55	6.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
2-Methylnaphthalene	38	J	55	9.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Naphthalene	39	J	55	6.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Phenanthrene	58		11	5.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Pyrene	100		28	5.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 15:46	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		105		30 - 130			02/20/13 13:23	02/21/13 15:46	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Client Sample ID: CV0971AL-GS

Date Collected: 02/13/13 10:01

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-33

Matrix: Solid

Percent Solids: 76.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Acenaphthylene	8.1	J	52	6.5	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Anthracene	11		11	5.4	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Benzo[a]anthracene	58		10	5.1	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Benzo[a]pyrene	52		13	6.7	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Benzo[b]fluoranthene	75		16	7.9	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Benzo[g,h,i]perylene	49		26	5.7	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Benzo[k]fluoranthene	29		10	4.7	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Chrysene	54		12	5.8	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Dibenz(a,h)anthracene	11	J	26	5.3	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Fluoranthene	81		26	5.2	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Fluorene	26	U	26	5.3	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Indeno[1,2,3-cd]pyrene	30		26	9.2	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
1-Methylnaphthalene	18	J	52	5.7	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
2-Methylnaphthalene	22	J	52	9.2	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Naphthalene	22	J	52	5.7	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Phenanthrene	52		10	5.1	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Pyrene	83		26	4.8	ug/Kg	○	02/20/13 13:23	02/21/13 16:04	1
Surrogate		%Recovery			Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		94			30 - 130		02/20/13 13:23	02/21/13 16:04	1

Client Sample ID: CV0971AM-GS

Date Collected: 02/13/13 10:06

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-34

Matrix: Solid

Percent Solids: 68.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Acenaphthylene	28	J	59	7.3	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Anthracene	28		12	6.2	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Benzo[a]anthracene	140		12	5.7	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Benzo[a]pyrene	150		15	7.6	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Benzo[b]fluoranthene	260		18	8.9	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Benzo[g,h,i]perylene	110		29	6.4	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Benzo[k]fluoranthene	77		12	5.3	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Chrysene	180		13	6.6	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Dibenz(a,h)anthracene	34		29	6.0	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Fluoranthene	320		29	5.9	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Fluorene	11	J	29	6.0	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Indeno[1,2,3-cd]pyrene	110		29	10	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
1-Methylnaphthalene	34	J	59	6.4	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
2-Methylnaphthalene	35	J	59	10	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Naphthalene	47	J	59	6.4	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Phenanthrene	150		12	5.7	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Pyrene	290		29	5.4	ug/Kg	○	02/20/13 13:23	02/21/13 16:23	1
Surrogate		%Recovery			Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		88			30 - 130		02/20/13 13:23	02/21/13 16:23	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Client Sample ID: CV0971AN-GS

Date Collected: 02/13/13 10:33

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-35

Matrix: Solid

Percent Solids: 75.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Acenaphthylene	30	J	52	6.6	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Anthracene	24		11	5.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Benzo[a]anthracene	120		10	5.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Benzo[a]pyrene	130		14	6.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Benzo[b]fluoranthene	220		16	8.0	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Benzo[g,h,i]perylene	100		26	5.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Benzo[k]fluoranthene	68		10	4.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Chrysene	150		12	5.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Dibenz(a,h)anthracene	22	J	26	5.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Fluoranthene	220		26	5.2	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Fluorene	13	J	26	5.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Indeno[1,2,3-cd]pyrene	84		26	9.3	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
1-Methylnaphthalene	30	J	52	5.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
2-Methylnaphthalene	33	J	52	9.3	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Naphthalene	42	J	52	5.8	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Phenanthrene	110		10	5.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Pyrene	210		26	4.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:41	1
Surrogate		%Recovery			Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		91			30 - 130		02/20/13 13:23	02/21/13 16:41	1

Client Sample ID: CV0971AO-GS

Date Collected: 02/13/13 10:45

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-36

Matrix: Solid

Percent Solids: 62.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Acenaphthylene	25	J	64	7.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Anthracene	54		13	6.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Benzo[a]anthracene	300		13	6.2	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Benzo[a]pyrene	310		17	8.3	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Benzo[b]fluoranthene	470		19	9.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Benzo[g,h,i]perylene	240		32	7.0	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Benzo[k]fluoranthene	140		13	5.7	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Chrysene	270		14	7.1	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Dibenz(a,h)anthracene	63		32	6.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Fluoranthene	550		32	6.4	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Fluorene	21	J	32	6.5	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Indeno[1,2,3-cd]pyrene	190		32	11	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
1-Methylnaphthalene	52	J	64	7.0	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
2-Methylnaphthalene	59	J	64	11	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Naphthalene	97		64	7.0	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Phenanthrene	310		13	6.2	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Pyrene	490		32	5.9	ug/Kg	⊗	02/20/13 13:23	02/21/13 16:59	1
Surrogate		%Recovery			Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		98			30 - 130		02/20/13 13:23	02/21/13 16:59	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Client Sample ID: CV0971AP-GS

Date Collected: 02/13/13 11:20

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-37

Matrix: Solid

Percent Solids: 59.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Acenaphthylene	23	J	67	8.4	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Anthracene	53		14	7.1	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Benzo[a]anthracene	240		13	6.6	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Benzo[a]pyrene	230		18	8.8	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Benzo[b]fluoranthene	370		21	10	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Benzo[g,h,i]perylene	200		34	7.4	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Benzo[k]fluoranthene	120		13	6.1	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Chrysene	240		15	7.6	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Dibenz(a,h)anthracene	58		34	6.9	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Fluoranthene	420		34	6.7	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Fluorene	22	J	34	6.9	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Indeno[1,2,3-cd]pyrene	160		34	12	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
1-Methylnaphthalene	120		67	7.4	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
2-Methylnaphthalene	150		67	12	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Naphthalene	210		67	7.4	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Phenanthrene	290		13	6.6	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Pyrene	420		34	6.2	ug/Kg	∅	02/20/13 13:23	02/21/13 17:18	1
Surrogate		%Recovery			Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		115			30 - 130		02/20/13 13:23	02/21/13 17:18	1

Client Sample ID: CV0971AQ-GS

Date Collected: 02/13/13 11:22

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-38

Matrix: Solid

Percent Solids: 72.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Acenaphthylene	41	J	55	6.8	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Anthracene	22		11	5.7	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Benzo[a]anthracene	180		11	5.3	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Benzo[a]pyrene	190		14	7.1	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Benzo[b]fluoranthene	310		17	8.3	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Benzo[g,h,i]perylene	160		27	6.0	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Benzo[k]fluoranthene	100		11	4.9	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Chrysene	170		12	6.1	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Dibenz(a,h)anthracene	42		27	5.6	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Fluoranthene	290		27	5.5	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Fluorene	8.1	J	27	5.6	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Indeno[1,2,3-cd]pyrene	140		27	9.7	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
1-Methylnaphthalene	25	J	55	6.0	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
2-Methylnaphthalene	33	J	55	9.7	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Naphthalene	42	J	55	6.0	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Phenanthrene	95		11	5.3	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Pyrene	310		27	5.1	ug/Kg	∅	02/20/13 13:23	02/21/13 17:36	1
Surrogate		%Recovery			Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		98			30 - 130		02/20/13 13:23	02/21/13 17:36	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-2
 SDG: 68087496-2

Client Sample ID: CV0971AR-GS

Date Collected: 02/13/13 14:20

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-39

Matrix: Solid

Percent Solids: 94.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	52	J	110	21	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Acenaphthylene	29	J	42	5.3	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Anthracene	180		8.9	4.4	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Benzo[a]anthracene	530		8.5	4.1	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Benzo[a]pyrene	440		11	5.5	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Benzo[b]fluoranthene	680		13	6.5	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Benzo[g,h,i]perylene	280		21	4.7	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Benzo[k]fluoranthene	260		8.5	3.8	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Chrysene	500		9.5	4.8	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Dibenz(a,h)anthracene	78		21	4.3	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Fluoranthene	1200		21	4.2	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Fluorene	59		21	4.3	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Indeno[1,2,3-cd]pyrene	210		21	7.5	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
1-Methylnaphthalene	210		42	4.7	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
2-Methylnaphthalene	360		42	7.5	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Naphthalene	250		42	4.7	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Phenanthrene	810		8.5	4.1	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Pyrene	1000		21	3.9	ug/Kg	∅	02/20/13 13:23	02/21/13 17:54	1
Surrogate		%Recovery		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		94		30 - 130			02/20/13 13:23	02/21/13 17:54	1

Client Sample ID: CV0971UU-CS

Date Collected: 02/13/13 13:41

Date Received: 02/15/13 09:42

Lab Sample ID: 680-87496-40

Matrix: Solid

Percent Solids: 79.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Acenaphthylene	22	J	50	6.2	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Anthracene	28		10	5.2	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Benzo[a]anthracene	96		9.9	4.8	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Benzo[a]pyrene	95		13	6.4	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Benzo[b]fluoranthene	140		15	7.6	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Benzo[g,h,i]perylene	64		25	5.4	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Benzo[k]fluoranthene	71		9.9	4.5	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Chrysene	100		11	5.6	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Dibenz(a,h)anthracene	19	J	25	5.1	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Fluoranthene	180		25	5.0	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Fluorene	8.6	J	25	5.1	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Indeno[1,2,3-cd]pyrene	71		25	8.8	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
1-Methylnaphthalene	15	J	50	5.4	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
2-Methylnaphthalene	20	J	50	8.8	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Naphthalene	20	J	50	5.4	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Phenanthrene	73		9.9	4.8	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Pyrene	160		25	4.6	ug/Kg	∅	02/20/13 13:23	02/21/13 18:12	1
Surrogate		%Recovery		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		93		30 - 130			02/20/13 13:23	02/21/13 18:12	1

TestAmerica Savannah